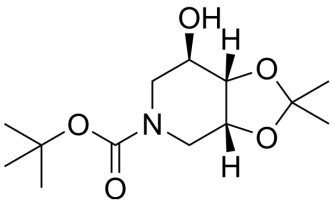
Glycosidase-IN-1

Cat. No.:	HY-135670
CAS No.:	170376-12-2
Molecular Formula:	$C_{13}H_{23}NO_5$
Molecular Weight:	273.33
Target:	Glucosidase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Glycosidase-IN-1 (Compound 9) is a glycosidase inhibitor synthesized from D-mannose. Glycosidase-IN-1 be used to synthesize some immunosuppressive agents and β-glucosidase inhibitors. Glycosidase-IN-1 has hypoglycemic activity[1].
IC_{50} & Target	Glycosidase[1]
In Vitro	The synthesis of C5-mono-fluorinated piperidine iminosugar 3a commences with iminosugar Compound 8 that is prepared from D-mannose. In Scheme 2, protection of the ring nitrogen in Compound 8 using Boc-anhydride and Et3N gives Glycosidase-IN-1 (Compound 9)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Naresh Bhuma, et al. Fluorinated piperidine iminosugars and their N-alkylated derivatives: Synthesis, conformational analysis, immunosuppressive and glycosidase inhibitory activity studies. Tetrahedron 74 (2018) 852-858.

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